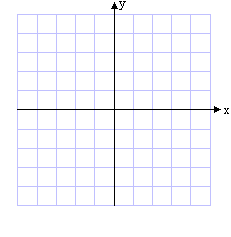
Quiz Review - 11/23/09 Name:

1. What is the shape of a parabola? Draw one.



1. What is the quadratic formula? In the quadratic formula, what do a, b, and c refer to?

Using the quadratic formula, solve the following problems (no radicals in your answer):

1. 6x2 + 50x + 56 = 0
2. 24x2 + 14x + 2 = 0
3. 24x2 - 11x - 28 = 0
4. 10x2 + 14x + 4 = 0
5. 7x2 + 61x + 40 = 0
6. What does i equal?

Simplify the following using i:

1. √-36
2. √-72
3. √-81
4. √-25
5. √-13

Solve the following, using i in your answer:

1. 10x2 + 12x + 6 = 0
2. 11x2 - 7x + 6 = 0
3. 4x2 + 11x + 8 = 0
4. 2x2 + 12x + 19 = 0
5. 8x2 + 4x + 1 = 0

The discriminant b2-4ac tells you how many real solutions a quadratic has. Tell me how many real solutions each of the following has.

1. 3x2 + 12x + 11 = 0
2. 7x2 + 12x + 9 = 0